

IN THE CLAIMS:

1. (currently amended) A seal arrangement for a combustor, the seal arrangement comprising a seal defining a first aperture and having a radially outwardly extending flange member, the combustor being defined by an inner ~~combustor~~ annular wall defining a second aperture, and an outer ~~combustor~~ annular wall defining a third aperture, the first, second and third apertures being arranged in line with each other to receive an article therethrough, wherein the seal is secured to the combustor by the flange member being disposed between ~~arranged between~~ the inner and outer ~~combustor~~ annular walls.
2. cancelled
3. (original) A seal arrangement according to claim 1, wherein the seal engages at least one of the inner and outer walls.
- 4.
5. (currently amended) A seal arrangement according to claim 1 wherein the seal comprises an outwardly extending ~~portion~~ flange member to engage the, or each, ~~combustor~~ annular wall.
6. (currently amended) A seal arrangement according to claim 5, wherein the outwardly extending ~~portion~~ flange member extends radially outwardly.
7. (currently amended) A seal arrangement according to claim 1, wherein holding means to hold the article are provided, the holding means extending through the aperture in the outer ~~combustor walls~~ annular wall.
8. (original) A seal arrangement according to claim 7, wherein the holding means comprises a guide member to guide the article into said apertures.
9. (original) A seal arrangement according to claim 7, wherein the holding means is conical in configuration.
10. (original) A seal arrangement according to claim 1, wherein the inner wall comprises a plurality of wall members.
11. (currently amended) A seal arrangement according to claim 10, wherein one of the wall member members comprises a main portion and a spacer to space

the main portion from the outer wall, the spacer extending around the second aperture.

12. (original) A seal arrangement according to claim 1, wherein the inner wall defines cooling means around the second aperture.

13. (currently amended) A seal arrangement according to claim ~~[[11]]~~ 12, wherein the cooling means comprises a plurality of cooling channels and a cooling fluid supply groove extending around the second aperture, wherein the cooling channels extend from the supply groove.

14. (original) A seal arrangement according to claim 13, wherein the cooling channels comprise a plurality of holes extending through the inner wall.

15. (original) A seal arrangement according to claim 13, wherein the cooling channels comprise a plurality of grooves extending along an outer surface of the inner wall to said second aperture therein.

16. (currently amended) A seal arrangement according to claim ~~[[12]]~~ 13, wherein at least some of the cooling channels extend inwardly towards the second aperture.

17. (currently amended) A cooling arrangement according to claim ~~[[12]]~~ 13 wherein at least some of the cooling channels extend at an acute angle to the second aperture.

18. (currently amended) A seal arrangement according to claim ~~[[12]]~~ 13, wherein ~~where~~ the second aperture is generally circular in configuration, at least some of the cooling channels are tangential to the second aperture, ~~or have a constant or variable tangential component thereto.~~

19. (currently amended) A seal arrangement according to claim ~~[[12]]~~ 13, wherein the cooling channels are arranged to provide an array of channels extending around the second aperture.

20. (original) A sealing arrangement according to claim 19, wherein the array of channels is an annular array and comprises a plurality of rows of cooling channels.

21. (original) A sealing arrangement according to claim 20, wherein one of said rows comprises a plurality of cooling grooves extending along the inner wall.

22. (original) A sealing arrangement according to claim 20, wherein the plurality of rows of cooling channels comprises a plurality of rows of cooling holes extending through the inner wall.

23. (amended) A sealing arrangement according to claim 1 wherein the seal defines seal cooling means around the first aperture.

24. (original) A sealing arrangement according to claim 23, wherein the seal cooling means comprises a plurality of seal cooling holes extending through an outwardly extending portion of the seal.

25. (original) A sealing arrangement according to claim 24, wherein the seal cooling means comprises a plurality of seal cooling grooves in the outwardly extending portion, extending along a surface of the seal in contact with the inner wall.

26. (currently amended) A combustion arrangement comprising a combustor ~~having inner and outer walls, wherein at least one of said walls comprises~~ having a sealing arrangement as claimed in claim 1.

27. (currently amended) A gas turbine engine incorporating a combustion arrangement as claimed in claim [[21]] 26.

28. (new) A sealing arrangement according to claim 13 wherein the second aperture is generally circular in configuration, at least some of the cooling channels have a constant tangential component thereto.

29 (new) A sealing arrangement according to claim 13 wherein the second aperture is generally circular in configuration, at least some of the cooling channels have a variable tangential component thereto.

30. (new) A seal arrangement for a combustor, the seal arrangement comprising a seal defining a first aperture, an inner combustor wall defining a second aperture, and an outer combustor wall defining a third aperture, the first, second and third apertures being arranged in line with each other to receive an article therethrough, wherein the seal is arranged between the inner and outer combustor walls and wherein the seal engages both of the inner and outer walls and is secured between said walls by said inner and outer walls.

31. (new) A seal arrangement for a combustor, the seal arrangement comprising a seal defining a first aperture, an inner combustor wall defining a second aperture, and an outer combustor wall defining a third aperture, the first, second and third apertures being arranged in line with each other to receive an article therethrough, wherein the seal is arranged between the inner and outer combustor walls and wherein the inner wall defines cooling means around the second aperture.

32. (new) A seal arrangement according to claim 31, wherein the cooling means comprises a plurality of cooling channels and a cooling fluid supply groove extending around the second aperture, wherein the cooling channels extend from the supply groove.

33. (new) A seal arrangement according to claim 32, wherein the cooling channels comprise a plurality of holes extending through the inner wall.

34 15. (new) A seal arrangement according to claim 32, wherein the cooling channels comprise a plurality of grooves extending along an outer surface of the inner wall to said second aperture therein.

35. (new) A seal arrangement according to claim 32, wherein at least some of the cooling channels extend inwardly towards the second aperture.

36. (new) A cooling arrangement according to claim 32 wherein at least some of the cooling channels extend at an acute angle to the second aperture.

37. (new) A seal arrangement according to claim 32, wherein the second aperture is generally circular in configuration, at least some of the cooling channels are tangential to the second aperture.

38. (new) A seal arrangement according to claim 32, wherein the cooling channels are arranged to provide an array of channels extending around the second aperture.

39. (new) A sealing arrangement according to claim 38, wherein the array of channels is an annular array and comprises a plurality of rows of cooling channels.

40. (new) A sealing arrangement according to claim 39, wherein one of said rows comprises a plurality of cooling grooves extending along the inner wall.

41. (new) A sealing arrangement according to claim 39, wherein the plurality of rows of cooling channels comprises a plurality of rows of cooling holes extending through the inner wall.

42. (new) A sealing arrangement for a combustor, the seal arrangement comprising a seal defining a first aperture, an inner combustor wall defining a second aperture, and an outer combustor wall defining a third aperture, the first, second and third apertures being arranged in line with each other to receive an article therethrough, wherein the seal is arranged between the inner and outer combustor walls and wherein the seal defines seal cooling means around the first aperture.

43 . (new) A sealing arrangement according to claim 42, wherein the seal cooling means comprises a plurality of seal cooling holes extending through an outwardly extending portion of the seal.

44. (new) A sealing arrangement according to claim 43, wherein the seal cooling means comprises a plurality of seal cooling grooves in the outwardly extending portion, extending along a surface of the seal in contact with the inner wall.